MOUNTAIN AGRICULTURE

Conducted by Mr. Robert F. Spence, Farm Demonstrator and Special Investigator

any yet held. The Farmers' Chau- greater things.

show and fair. problems. The popcorn exhibit for the day. was a marked feature of the disfarming, poultry, hogs, live stock of cooperated with him for nearly two all kinds, vegetables and the canning hours, of the same. The pig display, and At 1:30 the other side of the house

of the farmer.

The winners of the prizes will be and justice to the boys. announced in these columns at a

the winners; including the contest-Berea under the able management of Mrs. Marsh and Prof. Smith who have worked untiringly this summer in the interests of the boys and girls who have been so diligent and really successful in making their town more attractive and beautiful. It was a lesson and a valuable one for them throughout the whole campaign.

Let us remember this year's fair and corn show and improve upon it next year. It pays to get together with our year's work and compare the same even if we do not get the

FARMERS CHAUTAUQUA AT BE-REA

It was a unique arrangement on the part of the managers of the Chautauqua to hold this important gathering at the same time that the Corn Show and Fair was on. The eyes of the visitors were not only feasted but the minds were fed equally. "Balanced rations," you please, was the slogan of the three days at Berea. A number came to Berea for the three days and Sunday added. Talk about the farmers not being interested, it is a mistake. They know a good thing when it comes their way or they would not turn out in mass for instruction in their interests.

On account of bad luck on the road the speakers from Lexington did not arrive in time for the morning session on Thursday. The first session was held at 2:00 p. m. President Prost extended to the visitors the same warm welcome that characterizes Berea on such occasions. D. D. Slade opened the discussion on the subject of "Poultry on the Farm" which could have been made more practical for this section had the speaker been better acquainted with the conditions of this section. His answers to queries were very satisfactory. T. R. Bryant gave a very interesting and instructive talk on "Feeding Farm Animals."

BEREA CORN SHOW AND FAIR | He gave some very good and sound The third annual Berea Corn advice on the subject such that Show and Fair was the greatest of should encourage the stock men to

tauqua which was going on at the Priday morning was occupied by same time attracted the crowd from Mr. Slade who gave a very good lecthe display for a time but did not ture on the "Diseases of Poultry." interfere with the success of the Then followed Mr. Bryant who continued his talk of the day before An immense crowd gathered on the campus around the Tabernacle; which was ably handled. Mr. G. H. twenty miles or more bringing with Collins then tried to discuss the them their farm produce for dis- subject of "Farm Management" from play. The corn was not as good as the point of managing an eighty former years on account of the un- acre mountain farm in order that it favorable season. Everything else may be a paying propositon. Mr. on display was doubled and trebled Collins had the sympathy of those over former years, not only in quan- who never lived on a mountain farm tity but in quality as well. Where but fell short in the estimation of there were five plates of apples last the mountain farmer. The afteryear there were forty or more and noon was taken up by W. R. Reythe nicest that may be seen any- noids, Dr. Simmons and Mr. Spence. where. The vegetable display was The first gentleman gave a wonderincreased wonderfully in quality, fully practical exposition on the The canned fruit display was im- "Cropping System of Eastern Kenmense and would be hard to heat for tucky." He knows his territory quality and beauty. The home ex- and gave very valuable information hibition exceeded that of former in that line. Dr. Simmons in speak- has no assurance of what he is going years by several hundred per cent ing on the "Diseases of Farm Ani- to get in the future. It is a case of and was a great credit to those mals" gave some valuable hints of too many in the mixture, and it is making the display. The library how to care for and avoid many of guesswork as to which one will come exhibit conducted by Berea College the prevailing diseases that animals Library consisting of hundreds of are heir to. Our County Agent, books suitable for the farm home Spence, then talked to the point on was certainly an inspiration for all "Practical Farming in the Mouninterested in country life and its tains." This closed the program

Saturday in conjunction with the play showing what can be done Corn Show and Fair was well filled. with this "good of goodies." Talk Doctor Muchler became enthused about butter and corn bread; they over the fine display at the Taberwere there in quantities and with nacle and when he came before a all the quality any appetite dare vast crowd in the chapel for his crave. The poultry show was one morning lecture, forgot about himlong to be remembered; because it self and the hour and gave one of represented the efforts put forth by the greatest speeches of his life. the boys and girls who have taken. We regret much that we are not much interest in this line. Hurrah able to give a verbatim report of for the boys and girls who are tak- this lecture. His subject was "Coing the lead in these new lines of operation." His audience certainly

the houses for them made by the was heard from through the mouth boys, was a remarkable showing for Piece, Miss Mary E. Sweeney, of the them. It looks like the old heads State University. "Home Making" will have to take a back seat and let was her theme and she presented the "chaps" instruct them on live- her arguments for better home makstock keeping. The farm imple- ing in such a way as to be convincment display was a commendable ing as well as practical. Every one feature and should be a prominent in the audience enjoyed the address one at every farmer's meeting or and we hope that many will take to fair. These are the things that ap-peal to the farmer and open the better in making the home a place way to placing such on their farms, of attractiveness and pleasure, and In spite of Democratic speaking learn better how to prepare the food going on at the other end of town for the family. Dr. Muchler then the crowd remained at the fair and ended the program of the three days speaking at the Chautauqua that Chautauqua by giving his lecture appealed to the immediate interests on "Education of the Farm Boy," which was filled with common sense

The award cards were given to all CINCINNATI MARKETS

Wheat-No. 2 red \$1.15\601.16\6. No. 3 \$1.08@1.14. No. 4 \$1.01@1.05. Corn-No. 1 white 671/2c, No. 2 white 676674c. No. 1 yellow 674c. No. 2 and this material is found in many yellow 676674c. No. 1 mixed 674c, food materials. It is pientiful in fresh No. 2 mixed 67@67%c.

Oats-No. 2 white 42@42%c, standard white 40 ff 41c, No. 3 white 39 ff 40c, No. 4 white 36 ff 37c, No. 2 mixed 38 ff No. 3 mixed 36@37c, No. 4 mixed

Mill Feed-Bran \$21@21.50, mixed feed \$23, middlings, coarse \$24.50@25, middlings, fine, \$25.50@26. Rve-No. 2 \$1.61@1.03. No. 3 99c@

\$1.01, No. 4 96@99c. 1 timothy \$18.50, No. 2 timothy \$16@1f.50, No. 2 \$14@14.50, No. 2 \$13.25@15.50, No. 2 \$13.25@15.50, No. 2 \$13.25@15.50, No. 2

Butter-Whole milk creamery extras 31½c, centralized creamery extras 29c, firsts 25½c, seconds 22½c, dairy fancy 21½c, No. 1 packing stock 19c, No. 2 17c.

Eggs—Prime firsts 30c, firsts 27 4c, ordinary firsts 24c, seconds 20c, Poultry—Broilers, 2 lbs and under, Poultry—Brollers, 2 lbs and under, 17c; fryers, over 2 lbs, 14c; roasting chickens, 4 lbs and over, 14c; fowls, 5 lbs and over, 13c; under 5 lbs, 11 14c; under 3½ lbs, 9½c; roosters, 9c; ducks, white, 3 lbs and over, 15c; unturkeys, 8 lbs and over, 16c; hen tur-keys, 8 lbs and over, 16c; old tom tur-

keys, 10 lbs and over, 16c. Cattle-Shippers \$6.25@8. Cattle—Shippers \$6.25 \$6.8 extra \$8.16 \$6.25; butcher steers, extra \$7.35 \$67.75, good to choice \$6\$ \$67.15; common to fair \$4.75 \$6.50; helfers, extra \$6.75 \$67, good to choice \$6.25 \$6.65, common to fair \$4.50 \$66; cows. extra \$5.75 \$66, good to choice \$4.50 \$65, common to fair \$3\$ \$4.25; canners \$2.75 \$6.85, stockers and feeders

#4@7.

Bulls—Bologna \$5@5.75, extra \$5.85

@6, fat bulls \$6@6.50.

Calves—Extra \$8.75@11, fair to good \$7.50@10.75, common and large

\$5@10.50.

Hogs—Selected heavy shippers \$7.60@7.65, good to choice packers and butchers \$7.60@7.65, mixed packers \$7.30@7.60, stags \$4.50@6.50, common to choice heavy fat sows \$5@6.75, light shippers \$6.85@7.10, pigs (110 lbs and less) \$4@6.75.

she is better looking than the lady cashier at the downtown cafe where her husband gets his lunches .-- Port-



MISTAKE TO CHANGE BREEDS

Start With the Kind Liked Best and Stick to It-Cull Poor Specimens and Buy Better Ones.

To change breeds every now and then is poor practice. One should be very careful before the particular breed is chosen. To use a Holstein sire one year in order to obtain a large flow of milk, a Guernsey sire another year to secure richness of milk. and a Shorthorn sire the next time, is the wrong principle to employ in the breeding and raising of good cows.

Undoubtedly some good cows will be obtained in the herd from such methods of procedure, but there will be no uniformity of size, form, appearance and production, and the owner

First, select the breed with great care, then stick to it. If a mistake is made the first time in obtaining poor specimens and poor producers, ther rectify the mistake as soon as possible by selecting the right kind of a sire belonging to the same breed to head the herd, or by selling the animals



Typical Dutch Milker.

already bought, and purchasing better individuals belonging to the same breed.

It is usually safer to try to improve within the same breed than it is to improve by changing to a different breed. There are good individuals and good strains within any of the breeds intended for a particular purpose.

INFLUENCE COLOR OF BUTTER

Markets Demand Yellow Tint Which is Supplied by Use of Dyes or Character of Cow's Feed.

Although it is a fact that some dairy breeds give yellower milk than others, even though it may be no richer in fat, the thing of greatest influence in color is the kind of feed the cows are getting. Market demands call for a yellow butter, which is supplied in the creamery by the use of certain harmless vegetable dyes, the use of which dairy laws rightly permit.

The color also can be fed into the milk and make the use of dyes unmilk and cream quickly. - One of the natural coloring materials in milk and butter is called carotin, from carrots, green grass, hence the milk colors well in early spring. Alfalfa hay, cured to have a bright green color, contains good suplies of carotin, which appears in the cream as a result.

Hay which has lost this green color, dry corn fodder, silage, straw, yellow corn and white, wheat, wheat bran, cottonseed meal and other milled feeds contain, practically none, and cream from cows so fed will produc a light colored butter unless artificial coloring is supplied. The color adds nothing to the value or digestibility of butter, save in one's mind, but the market demands a yellow butter all the year round and the color must either be supplied in the feed or in the creamery.

SEPARATION OF SOUR MILK

From One Pan to Another, Breaking Up Curd as Fine as Posalbie-Prevents Clogging.

Milk that has curdled will separate with difficulty. Such milk should be thoroughly mixed previous to separating, by pouring from one can into another. In this way the curd is broke up as finely as possible, so that it will not clog the machine. The separation of curdled milk finally close the skimmilk tubes, with the result that more skim milk passes through the cream outlet, making a thinner cream.

On the other hand, when sour milk which has not curdled is separated, the cream produced will be thicker. This is due to the fact that cream from sour milk has a high viscosity, or is less fluid, and a smaller proportion of cream is delivered, containing a higher per cent of fat.

Ordinary Cow Stalls The ordinary cow stalls should be five feet long from the stanchion back to the gutter. This is the standard distance and does for all except abnor mally large or small stock. The width of the stall varies somewhat with the breed and size of the cows, from three feet four inches to four feet. Three feet eight inches is a good average.

Deepening the Farm For Bigger Crops

The Third Dimension of the Farm an Important Factor to Greater Crops and Bigger Dividends.

breadth. Depth in a vital factor, and incidentally this third dimension has a clearly identified influence upon the producing value of the

method of agriculture, is rapidly developing. Merely to scrape the bristies from a hog's hide is not enough. Deeper cutting is essential in order to reach the bacon. And experience has shown that to simply plow or turn the top soil is very often only the scratching of the surface when it comes to

Often the productivity of a farm to

to increase its fertility and productiveness by increasing its depth, is a matter that the practice of vertical farming accomplishes quickly and economically, and very often a single caryards of otherwise useless subsoil into half an acre of new root feeding surface. Thus, instead of spreading out and embracing more territory, vertical farming enables the farmer to really in itself easy, simple and labor saving, concentrate and by intensive methods A half cartridge charge of farm powconserves in both labor and expense. At the same time the resulting in crease in crops emphasizes the profit-able features of the process.

And there is a practical reason for sted by the tight clay or hard pan this. By breaking up the subsoil oxy-terlying the top soil. Costly imple-gen is admitted into the ground, and the pent up natural fertilizing elements

PISE farmers are beginning to taking care of increased horizontal or of the lower soils are released and realize that a farm goes surface acreage are all right in their utilized. A reservoir for the storage of farther than length and way, but to go deeper into the farm, water is created, and a good home for the roots is produced. Good roots are essential to good plants. Men who look below the surface realize these facts. They know also that a plant produces only in proportion to tridge of explosive will convert several the extent of air, weter and nourishment given its roots. Thus is the newer method of vertical farming both logical and profitable.

This method of farming vertically to der placed well down into the tight subsoil at intervals of about a rod. tamped properly and fired carefully will do the work quickly and economically. Subsoil blasting, however, can be done successfully only when the

Few tools are required for the work.

USING CONVICTS ON HIGHWAYS

Many States Have Abolished Contract System of Working the Prisoners

WORK CONVICTS ON ROADS

Kentucky Could Possibly Eave From Twenty to Thirty Per Cent of the Money Expended For Road Work on the Public Highways Says Commis-

Frankfort, Ky .- (Special)-R. C. Perrell, Commissioner of Roads, when asked for his views regarding the employment of convicts on the roads of the state, granted the following interview on this subject:

"In recent years the convict labor problem has been one that has been given a great deal of attention, and prison reforms have brought about a study of conditions as they exist, with a view of how they could be bettered, and as a result, most of the States have abolished the contract system of working the prisoners and have established the more modern system of using the convicts on the public highways, and in the prisons for the purpose of preparing materials for the highways, and on other public works in the various States Reports from various Highway Departments over the United States show conclusively that convict labor can be used to an advantage in road building and at a saving of both to the county and State in the cost of labor for this class of work.

"In the biennial report of Mr. T. F. Tynan, Warden of the State Penitentiary of Colorado for the year 1912, it is shown that there was built one hundred and fifty-seven miles of road through the mountain sections of that State, at a saving according to his estimate, of \$223,479.56; that the average cost per day per man for the laborers engaged in this class of work was 32c. He further states that the convicts were able to do the work of not only ordinary laborers, but some were found able to perform the services required of experienced men in drilling, blasting, laying masonry, black-smithing, and other skilled labor. With such labor commanding a salary of from \$2 to \$5 per day, this without a rial for the longer span bridges these doubt, shows that convict labor can be used to advantage on heavy construction work, and in places where more or less permanent camps can be maintained.

Virginia also has succeeded in this undertaking, as is shown by the results. For the past nine years convicts have been used on the public highways of this State, and Mr. P. St. J. Wilson, former State Highway Commissioner, and now the Assistant Director in the United States Office of Public Roads at Washington, D. C., stated that more than 1,500 men were used on the public highways of Virginia in the year 1913; that from forty to seventy-five were grouped together in a single camp—separate camps being maintained in each county—and that the cost of clothing and feeding them, and general maintenance of the men was 52c per day for a period of three years; that the men were not specially selected, but that the road rces were made up of prisoners as tuey were presented at the prisons; that men who were physically weak, or even cripples, were often sent out as part of the road force. He further states that the contractors who contracted for the work had very frequently offered \$1 per day for men

furnished by the State. Under our present system in Kentucky the State receives the magnifi cent sum of 75c per day per man employed under contract, and the State is required to feed and clothe the prisoners and a great many of the pris oners are let at a lower figure than

"Kentucky could possibly save from twenty to thirty per cent of the money expended for road work under the State aid plan, if the convicts could used on the public highways, and the preparation of the materials which go into the highways. It would be possible to establish semi-perma-nent camps in the various counties where limestone is svallable in large

for road building, ready to be delivered by rail or motor truck to roads under construction, and these camps could be maintained practically the entire season.

"In Edmonson County, Kentucky, there exists an unlimitable deposit of rock asphalt, which is a hard sandne—the finest road making mater ial known-containing from seven to nine per cent of bitumen or asphalt base. This material has an overburden of from ten to twenty feet of soil, sand or rock, and lies in a horizontal strata of from six to twenty feet in thickness. Would it not be a fine thing to establish here a permanent convict camp, where they could be used in the stripping of this material, quarrying and pulverizing and loading it ready for shipment to the counties of the Commonwealth? The actual cost of production, or even a reason-able per cent of profit could be charged by the State for the material, and at the same time very materially struction, and insuring to the counties for their limestone, macadam, or other hard surfaced roads, a splendid, dustless, noiseless, durable and at the might be established for the purpose of preparing limestone as stated above, and still others for the manufacture of brick to be used in the surfacing of roads, and a very efficient organization might be had for the placing of concrete roads as is now being used in Illinois, Georgia, and

other States where that type of road is being constructed. "The men become skilled in the performance of their duties, and this, while preparing them for a better ex-istence when they have completed their term, also reduces the possibility of breaking up the organization by men quitting. Another important fac-tor to be considered is the reduction of the cost, the reducing of the cost making it possible for all the countles in the state—not merely the rich coun-ties—but practically all of them, to construct permanent roads. When one stops to consider that there are one hundred and twenty counties in Ken-tucky, most of them having a road fund ranging from \$500 to \$5,000, while fund ranging from \$500 to \$5,0 less than ten have a road fund of more than \$20,000, it is quite an easy matter to understand the advantage that con-

ties, where funds are limited, in the securing of permanent types of road. "The convict labor would not come in competition with free labor, for without it the countles would be com pelled to build a cheaper type of ros and in many instances would not be able to build at all, while, with the convict labor, better and more durable types of road could be constructed, as well as a more durable type of bridges Even in the fabrication of steel mate could be obtained at a much cheaper figure, with the convict labor, than they could be done by contract.

"In summing up the advantages to the counties and to the state, one should not overlook the big advantage to the convict himself—the wholesome out-of-door labor-bettering him, men-tally, morally and physically-a much more healthy occupation than that which he would find inside the prison

PREVENT HOG CHOLERA

Disease Is Greatest Menace to Successful Swine Raising.

By Far Most Conf gious and Fatal of Any of Ailmen's of Animals-Infection Carried to Healthy Herds in Many Ways.

(By J. KASTLE and R. GRAHAM.)

Hog cholera is the greatest menace to successful hog raising. It is by far the most contagious and fatal of any of the diseases of swine. The disease is due to an ultra-microscopic virus which is present in the blood, the excreta and in the carcasses of all infect ed animals. The infection may be carried from infected to healthy herds by a number of agencies, such as running water, birds, dogs, new stock from infected sources, and also on the shoes of persons who have walked over infected areas. We can only hope to control, and ultimately eradicate hog cholers by honest, conscientious and painstaking efforts on the part of all farmers and hog raisers looking to the effective isolation of all animal having the disease, scrupulous cleanit ness in the handling and care of hogs disinfection of infected premises, the burning of all carcasses of hoge that

quantities and prepare this material | have died of this disease, proper care in the selection of fresh stock and the careful and intelligent use of hog cholera serum.

Hogs should be fed a balanced ration consisting of such materials as corn and various corn products, bran, wheat middlings, oil meal, tankage and distillers' dried grains and, whenever possible, they should be supplied with forage crops, such as green alfalfa or alfalfa hay. Hogs should be supplied with an abundance of pure, clean water, plenty of shade in hot weather, dry bedding, and airy, light, well ventilated hog houses.

Great care should be exercised in the purchase of new stock in order to secure healthy, vigorous animals, free from disease. In this connection, it is well to bear in mind that hog cholera has an incubation period lasting from 5 to 20 days, during which time the animal may appear normal to all intents and purposes. Separate quarters should be provided for the isolation of all newly-purchased animals, where they may be kept from the rest of the herd for a period of three weeks, and kept under observation for any symptom of the disease that may ap-

Following an outbreak of hog cholera in a herd, a thorough cleaning up and disinfection of hog lots and quarters must be resorted to. Fire and fresh air-slaked lime are the most efficient agents for the destruction of



Isolated While Being Watched Hogs for Cholera Symptoms.

hog cholera virus. Scatter fresh airslaked lime abundantly about the hog lots or disinfect with a 3 per cent solution of cresol compound and whitewash the hog houses and fences.

Sick hogs should not be sold; neither should they be driven along public highways or transported in cars from place to place, or placed in public stock vards or pens. In other words, the only way to properly control this disease is to isolate it, and though it may work a temporary hardship on the individual owner to do this, it is certainly, ultimately, to his interest and to the interest of the great body of hog raisers, to do all in his power to establish and maintain a rigid and effective quarantine with respect to this.

SOME ECONOMIES IN HARVEST

Considerable Portion of Grain Crop Lost in Field by Help Neglecting to Pick Up Scatterings.

It is possible for careless help to leave a considerable portion of the grain crop in the field by neglecting to gather up scatterings, loose bundles, etc., and by hauling grain on open-bottom racks.

From a few pounds to a few bushels of grain may be saved every day, during stacking, by using a tight-bottom rack, or a canvas over the rack that will catch all of the grain that is shattered out of the heads.

In seasons when the grain shatters badly, a surprisingly large amount of grain can be saved in this way.

Coal ashes, it is believed by many because of their favorable effect on many soils, possess considerable fertilizing value. As a matter of fact coal ashes contain only traces of fertilizing constituents. The good results from their use is due to their loosening or lightening effect on heavy or clay soils.

Studies Feed and Land. The dairy farmer not only studies how to feed his cow but how to feed he realizes that the farmer who reduces the fertility of his land robs without reason, since he steals from

In Sectonese.

Estimate the distance carefully ere you try to negotiate it.—Hoston Record.